

BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: 18 June 2003

Division: Growth Management

Bulk Item: Yes No X

Department: Marine Resources

AGENDA ITEM WORDING:

Public hearing to adopt an Ordinance amending Chapter 15.5, Monroe County Code to provide for a Uniform Wastewater System Connection Standard.

ITEM BACKGROUND:

At the January 2003 regular BOCC meeting, the Commission heard from a number of individuals with complaints concerning connection requirements to facilities operated by Key West Resort Utilities (KWRU). The Commission requested that staff talk to property owners and the Utility to determine if any adjustments need to be made to the County's contract with the Utility concerning engineering options and a uniform connection policy.

The attached Ordinance and the Uniform Wastewater System Connection Standard that it contains, represent a direction specific to issues found in staff's consideration of concerns raised with Key West Resort Utility. However, the connection standard that it provides is intended to be applied generally throughout the County, in consideration of all connection issues that may arise elsewhere. The public hearing on this proposed Ordinance was continued from the Commission's May 21st. meeting.

PREVIOUS RELEVANT BOCC ACTION:

Approval of a Contract with KWRU

CONTRACT/AGREEMENT CHANGES:

NA

STAFF RECOMMENDATIONS;

Approval

TOTAL COST: None

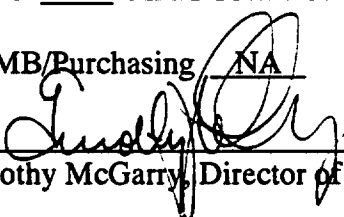
BUDGETED: Yes No

COST TO COUNTY: None

SOURCE OF FUNDS:

REVENUE PRODUCING: Yes No X AMOUNT Per Month Year

APPROVED BY: County Atty X OMB/Purchasing NA Risk Management NA

DIVISION DIRECTOR APPROVAL: 
Timothy McGarry, Director of Growth Management

DOCUMENTATION: Included X To Follow Not Required

DISPOSITION:

AGENDA ITEM NO.: V2

ORDINANCE NO. 2003

AN ORDINANCE OF THE MONROE COUNTY BOARD OF COMMISSIONERS CREATING SECS. 15.5-33 THROUGH 15.5-38, MONROE COUNTY CODE, IN ORDER TO PROVIDE FOR A UNIFORM WASTEWATER CONNECTION POLICY FOR UNINCORPORATED AREAS WITHIN MONROE COUNTY, BY SUPPLEMENTING SECS. 15.5-20 THROUGH 15.32, MONROE COUNTY CODE, CONCERNING REQUIRED CONNECTION TO AVAILABLE SEWERAGE SYSTEMS AS DEFINED THEREIN, PROVIDING FOR INCLUSION IN THE CODE OF ORDINANCES, PROVIDING FOR SEVERABILITY, PROVIDING FOR REPEAL OF SECTIONS FOUND INCONSISTENT WITH THIS REVISION, AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, it is the desire of the Board of County Commissioners that a fair; equitable, and uniform standard exists for the required connection to any available sewerage system within the unincorporated area of Monroe County; and

WHEREAS, there are multiple wastewater authorities operating within the unincorporated area of the County that are by some means supported through the efforts of the Board of County Commissioners; and

WHEREAS, each wastewater authority within the unincorporated area of the County has slightly differing policies requiring connection to an available sewerage system; and

WHEREAS, the existing Secs. 15.5-20 through 32 provide substance but not detail regarding connection requirements to an available sewerage system, as defined therein; and

WHEREAS this Ordinance would provide criteria and greater detail than the connection requirements of Chapter 15.5 as it would relate to

1. the obligations of the a publicly owned or investor owned sewerage system for providing service at or near a private property boundary and
2. the obligations of a private property owner to provide connection to the sewerage system, and

WHEREAS, it is intended that this Ordinance be as flexible as possible, it may be modified from time to time as conditions warrant, now, therefore,

BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS, MONROE COUNTY, FLORIDA THAT:

Section 1. Sections 15.5-33-15.5-38, Monroe County Code, are hereby created to read as follows:

Sec. 15.5-33: **Title.** Unincorporated Monroe County Uniform Wastewater Connection Standard

Sec. 15.5-34: **Purpose.** This Standard serves to supplement Sections 15.5-20 through 32 of the Monroe County Code.

Sec. 15.5-35: **Applicability.** This policy applies to all publicly owned and investor-owned wastewater utilities in unincorporated Monroe County financially supported by the Board of County Commissioners, including the Florida Keys Aqueduct Authority (FKAA), the Key Largo Wastewater Treatment District (KLWTD), and Key West Resort Utility (KWRU).

- A. The goal of this policy is to have every residential and commercial user of a system treated equitably to the greatest extent possible:
1. in the Utilities' provision of wastewater facilities in the public right-of-way; and
 2. in the wastewater components that are required to be provided by the user on his/her private property.

Sec. 15.5-36: **Definitions.**

- B. *Compatible system:* A compatible system shall be a vacuum system (or other collection system provided by the utility within the public right-of-way), or a sewage force main, if the utility has a force main with adequate capacity. Note larger concentrated flows may require connection to a utility-provided force main within the public right-of-way.
- C. *Connection:* A connection is defined as the point where an individual or multiple EDUs are connected to the Utility's central collection system and may be by gravity, pressure, or vacuum.
- D. *Equivalent Dwelling Unit (EDU):* For purposes of this Ordinance, one EDU is assumed to generate a sewage flow of 167 gallons per day, and a Recreational Vehicle (RV) unit is assumed to generate a sewage flow of 75 gallons per day. One EDU is equivalent to one Equivalent Residential Connection (ERC) as defined by some utilities.
- E. **Hydrostatic Test.**
- F. *Pipelines:* All private gravity sewers shall be tested for leakage prior to connection to the Utility.
- G. All testing for acceptance shall be performed at periods of lowest tide. Testing shall be performed only during the 6-hour period of the lowest tide period of each day (once per day). The Utility shall determine this 6-hour period each day.
- H. *Testing Equipment Accuracy:* Plus or minus ½ gallon of water leakage under specified conditions.
- I. *Maximum Allowable Leakage:* 0.16 gallon per hour per inch diameter per 100 feet.
- J. *Hydrostatic Head:*
- i. At least six feet above maximum estimated groundwater level in section being tested.
 - ii. No less than six feet above inside top of highest section of pipe in test section.

- K. Length of Pipe Tested: Limit length such that pressure on invert of lower end of section does not exceed 30 feet of water column.
- L. To successfully pass and not be defective, the following shall be demonstrated:
 - i. Do not exceed the maximum allowable leakage.
 - ii. All pipe joints shall be aligned and none displaced.
 - iii. Grade and alignment shall be continuous without sags or curvature from structure-to-structure.
- M. Defective Piping Sections: Replace and retest as specified. Grouting of leaky joints on new pipe will not be accepted.
- N. Manholes: Hydrostatically test all project manholes.
- O. Procedure: Plug inlets and outlets and fill manhole with water to height determined by Utility. Bypass pump sewage as required.
- P. Where practical, a manhole may be filled 24 hours prior to time of testing, if desired, to permit normal absorption into the pipe walls to take place.
- Q. Leakage in each manhole shall not exceed 0.1 gallon per hour per foot of head above the invert.
- R. Defective manholes: Repair based on plan submitted to and approved by Utility. Retest as specified.
- S. Industry and Utility Standards:

All sewer systems connecting to publicly-owned or investor-owned utilities shall conform to industry standards and all requirements of Chapters 62 and 64E-6 of the Florida Administrative Code. These standards and requirements include but are not limited to the following:

- T. Gravity Sewer Collection Systems
- U. Individual sewer services shall be tested in accordance with Section 312 of the International Plumbing Code
- V. No gravity sewer main shall be less than 8 inches in diameter
- W. Rainwater and groundwater must be excluded
- X. Sewer mains and joints shall be water tight. For sewer mains the air test shall, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C-924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials test procedures approved by the regulatory agency
- Y. Sewers 24 inches or less shall be laid with straight alignment between manholes
- Z. Manholes shall be installed: at the end of each line; at all changes in grade, size or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less
- AA. Manholes shall be inspected and tested for water tightness or damage. Air testing shall conform to the test procedures described in ASTM C-1244
- BB. Wastewater Pumping Stations
- CC. Wastewater pumping station structures and electrical and mechanical equipment shall be protected from physical damage from the 100 year flood. Wastewater pumping stations should remain fully operational and accessible during the 25 year flood

- DD. Pumping stations shall be designed with a standard receptacle for connecting portable power generating equipment
- EE. Multiple pumps shall be provided with capacity such that, with any unit out of service, the remaining units will have capacity to handle the peak hourly flow.
- FF. Force main leakage tests shall be performed in a manner acceptable to the Utility's engineers
- GG. Infiltration and Inflow (I/I): Infiltration and Inflow (I&I) is the introduction of storm water run-off, groundwater or other sources of uncontaminated water into a sanitary sewer system. The introduction of I&I is prohibited by Chapter 62 of the Florida Administrative code. All sewer collection systems shall be demonstrated to be free of I&I using one of the test methods cited under the definition of Industry and Utility Standard or by an alternative test method approved by the utility's engineer.
- HH. Ownership of system constructed by private property owner: Where reasonable permanent and temporary easements are granted by the private property owner, the utility may take over the facilities within the permanent easement for ownership and for operation and maintenance in accordance with paragraph 10 below. Facilities outside the permanent easement shall remain the responsibility of the private property owner.

Sec. 15.5-36: General Direction.

- A. Every user, either residential or commercial, shall have utility facilities made available to him/her for connection of his system in the public right-of-way, abutting his/her property.
- B. New wastewater systems or extensions generally will be vacuum systems, which the Monroe County Sanitary Wastewater Master Plan identifies as the most economical for systems of 200 to 300 users or greater in Monroe County.
- C. Larger concentrated flows may best be accommodated by connection of an upgraded existing or new pump station to a wastewater force main provided by the utility within the public right-of-way rather than connection to the vacuum main. The decisions as to such improvements will be made by the Utility based principally on cost efficiency in consideration of expense to both the Utility and properties that may be connected to it.
- D. Pump Stations
 - 1. For existing wastewater pump stations:
 - a. The user shall upgrade, at his/her cost, the pump station to industry and utility standards so that the station is able to discharge the design flow to the wastewater to the collection system.
 - 2. For new wastewater pump stations:
 - a. The user shall provide, at his cost, the new pump station that complies with industry and utility standards.
 - 3. Once installed or upgraded, the user may own and operate the pump station, or may turn it over to the utility, free of charge, for ownership and for

operation and maintenance, if the utility policy permits. The utility is encouraged to adopt such a policy if one does not exist. Generally, the gravity wastewater collection system upstream of the pump station shall remain the responsibility of the owner.

- E. For private property or contiguous properties under one ownership with one or more EDUs which in total has/have an cumulative estimated wastewater flow of less than 1,000 gallons per day:
1. The utility shall provide a means of connection within the public right-of-way, whether by vacuum pit or other, that abuts the property and that can be accessed via a gravity system; or
 2. At the request of the property owner, the utility shall provide a connection to the utility system at the public right-of-way line that abuts the property for the property owner to extend onto his property a collection system that is compatible with the utility system and meets the minimum utility design standards.
- F. There are two options available for a private property or contiguous properties under one ownership with multiple dwelling units, such as mobile home parks, apartments, condominium associations, etc. which cumulatively has an estimated sewage flow exceeding 1,000 gallons per day and which is currently served by onsite wastewater systems (septic or unknown) or which is currently served by existing wastewater infrastructure and a wastewater treatment plant:
1. The utility may provide a connection to the utility system at the public right-of-way line for the property owner to extend a collection system onto his/her property. The collection system shall be compatible with the utility system and shall meet minimum utility design standards.
 2. Where reasonable permanent and temporary easements are granted by the private property owner, the utility may, at its discretion, provide facilities within the granted easements, or at the utility's discretion may accept facilities constructed by the private property owner for operation and maintenance.
- The utility is encouraged to meet with the property owner and his engineer to review the options that are available.
- G. For new developments or existing developments constructing new collection system (including subdivisions) - The developer shall construct the collection system to industry and utility standards and turn over the facilities within public rights-of-way, or within acceptable permanent and temporary easements granted by the developer, free of charge, to the utility for ownership and for operation and maintenance. The wastewater improvements, and all local and state permitting that may be required, shall be coordinated with the County's development review process as defined in Chapter 9.5, Monroe County Code.

H. Before a wastewater collection system can be connected to the Utility's system, the user shall demonstrate to the satisfaction of the Utility that the collection system is free of excessive infiltration and inflow (I/I), in accordance with industry and utility standards. If the system is not free of excessive I/I, the system shall be brought up to industry and utility standards before connection to the utility system. All other components of the wastewater system must meet industry and utility standards.

Sec. 15.5-38: Conflicts with other laws or regulations. In the case of a conflict between this Unincorporated Monroe County Wastewater Connection Standard and any state or federal law or administrative rule or regulation the provisions of state or federal law or administrative rule or regulation shall control.

Section 2. Severability. If any section, subsection, sentence, clause or provision of this Ordinance is held invalid, the remainder of this Ordinance shall not be affected by such invalidity.

Section 3. Repeal of inconsistent ordinance or resolutions. All Ordinances or Resolutions or parts of Ordinances or Resolutions in conflict with this Ordinance are hereby repealed to the extent of said conflict.

Section 4. Inclusion in the Monroe County Code. The provisions of this Ordinance shall be included and incorporated in the Code of Ordinances of the County of Monroe, Florida, as an addition to amendment thereto, and shall be appropriately renumbered to conform to the uniform numbering system of the Code.

Section 5. Effective date. This Ordinance shall be filed with the Office of the Secretary of State of the State of Florida, and will take effect upon notice of receipt by that agency.

PASSED AND ADOPTED by the Board of County Commissioners, Monroe County, Florida at a regular meeting of said Board held on the _____ day of _____, 2003.

Mayor Spehar
Mayor Pro Tem Nelson
Commissioner McCoy
Commissioner Neugent
Commissioner Rice

(SEAL)
Attest: DANNY L.KOLHAGE, Clerk

BOARD OF COUNTY COMMISSIONERS
OF MONROE COUNTY, FLORIDA

By _____
Deputy Clerk

By _____
Mayor/Chairperson

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY
BY ROBERT N. WOLFE
DATE 5-1-03

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